APRIL/MAY 2023

CCA41/CCS41 — RELATIONAL DATABASE MANAGEMENT SYSTEMS

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Specify various levels of abstraction.

2. List out any four applications of database.

3. Define primary key.

4. What is mean by join? Give its types.

5. Define decomposition.

6. Give an example for decomposition of loan-info-schema.

7. Mention the examples for optical disk.

8. What is the function of magnetic tape?

9. Define lock based protocol.

10. Give an example for recovery algorithms.

SECTION B — (5 × 5 = 25 marks)

Answer ALL the questions.

11. (a) Write short note on domain relational calculus.

Or

(b) Narrate the history of database systems.

12. (a) Give an example for complex query.

Or

(b) What is meant by embedded SQL? Explain with example.

13. (a) Write short note on the pitfalls in relational database system design.

Or

(b) Discuss on first, second and third normal form.

14. (a) Give an account on territory storage devices.

Or

(b) Exemplify the storage access methods.

15. (a) Narrate the method used to organize records in files.

Or

(b) Give an account on buffer management Recovery System.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Elaborate the operations using relational algebra.

17. Describe the methods used to modify data on the database.

18. Exemplify the fourth normal form.

19. Discuss on the working principles of magnetic disk.

20. Elaborate the storage structure used for Recovery System.

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